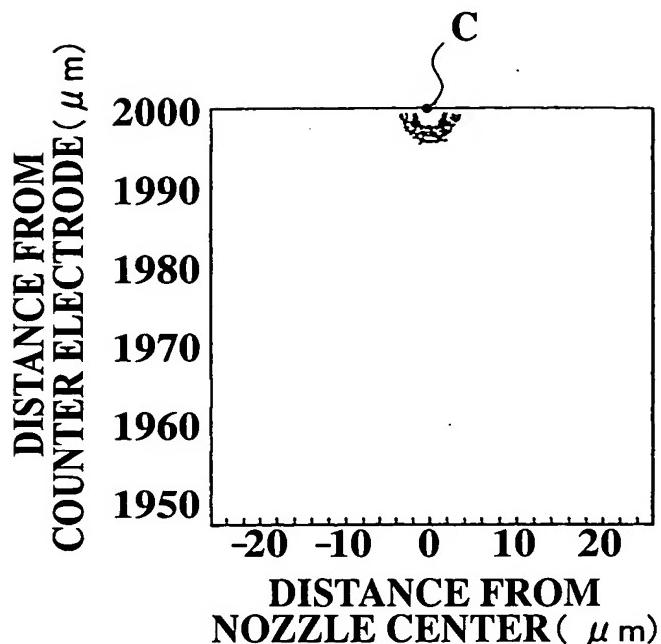
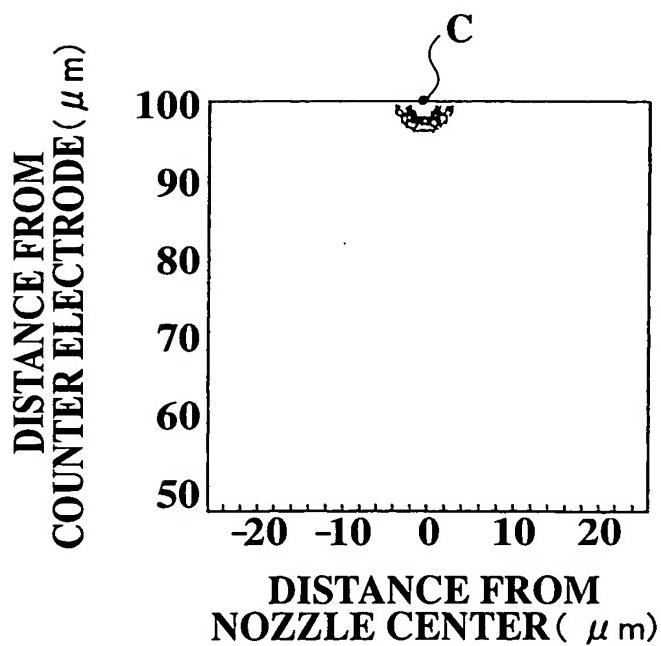


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**FIG.1A**



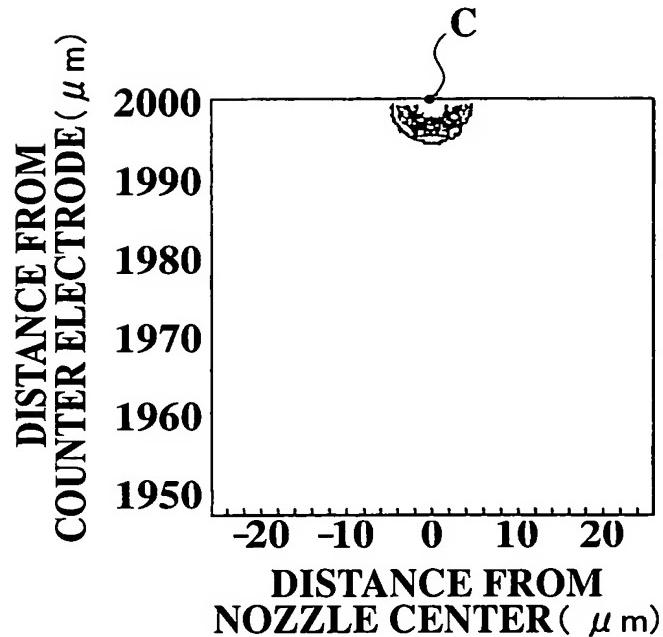
**FIG.1B**



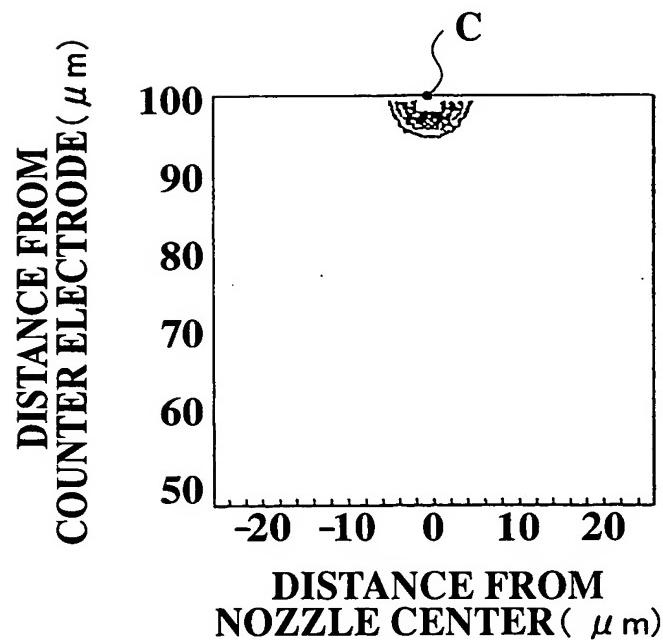
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**FIG.2A**



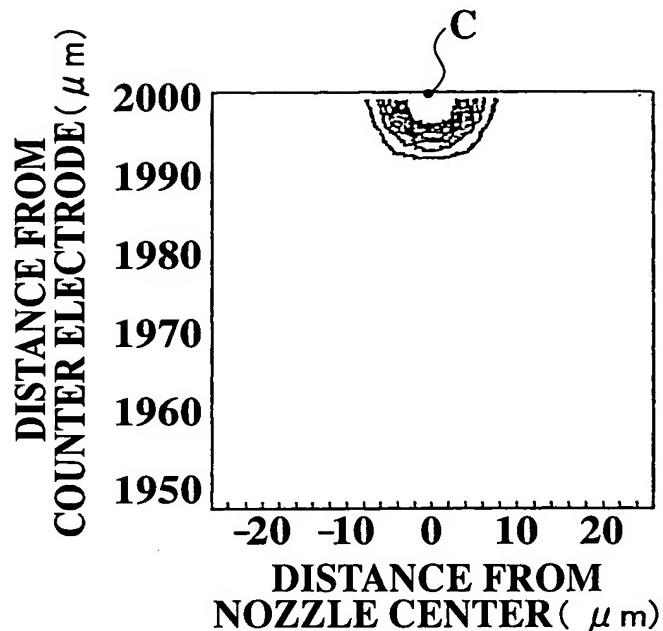
**FIG.2B**



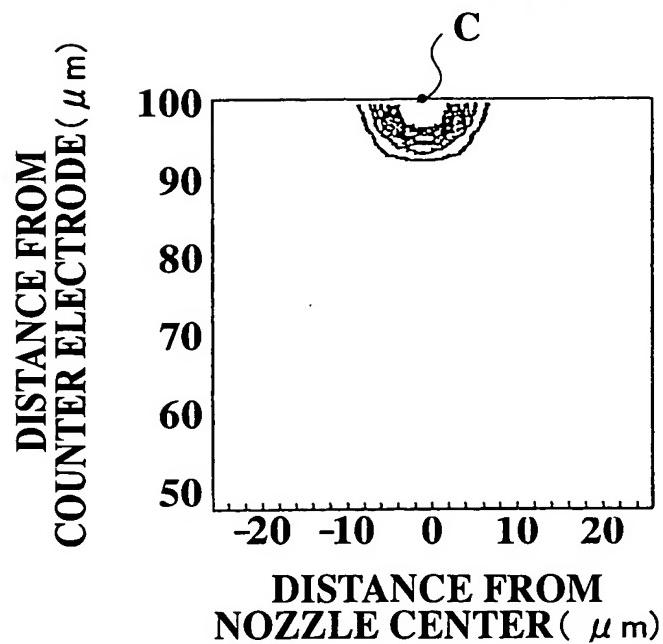
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**FIG.3A**



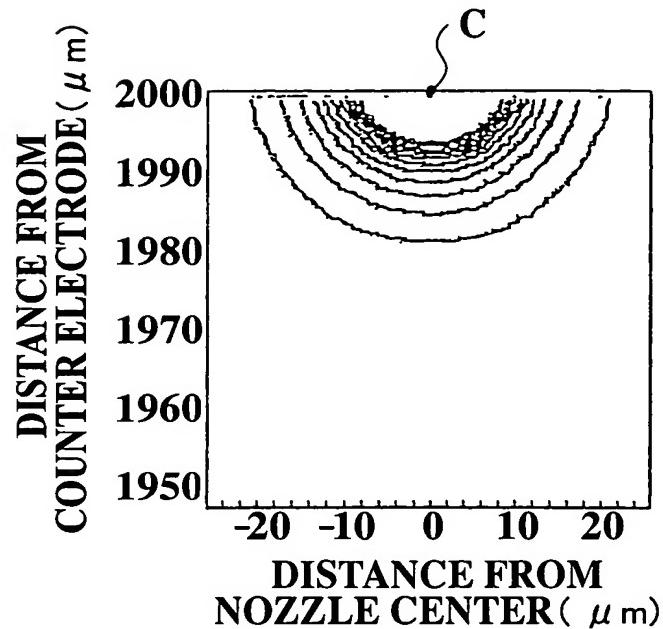
**FIG.3B**



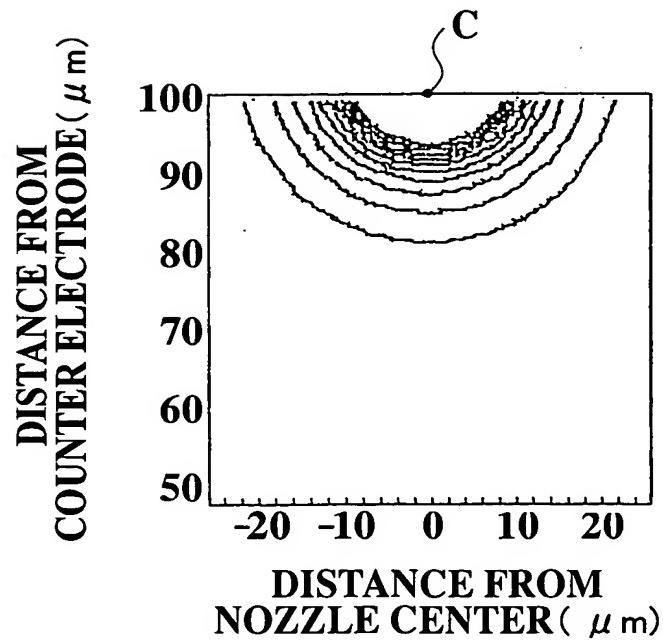
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**FIG.4A**



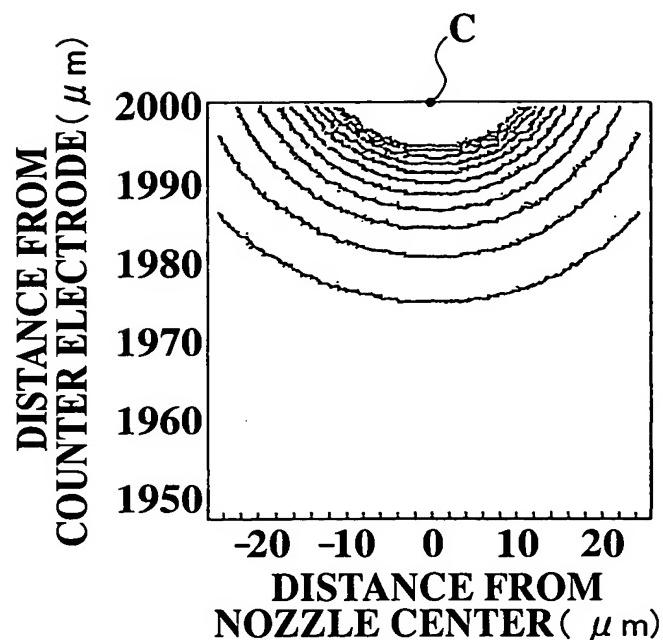
**FIG.4B**



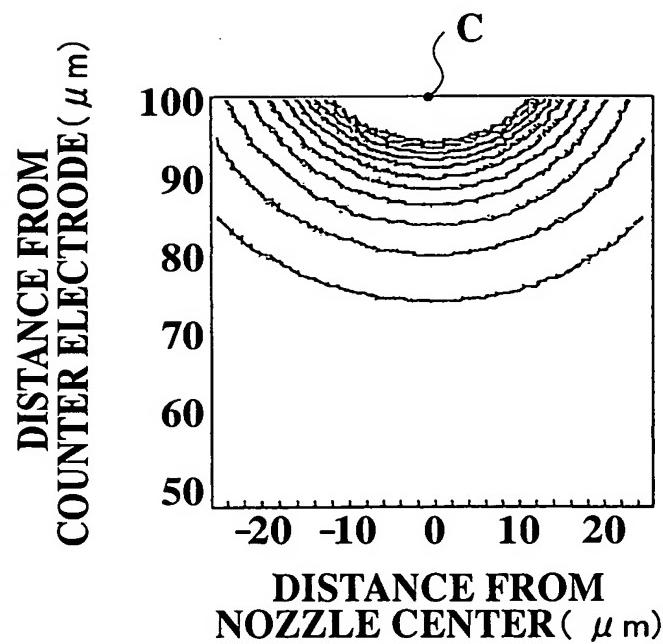
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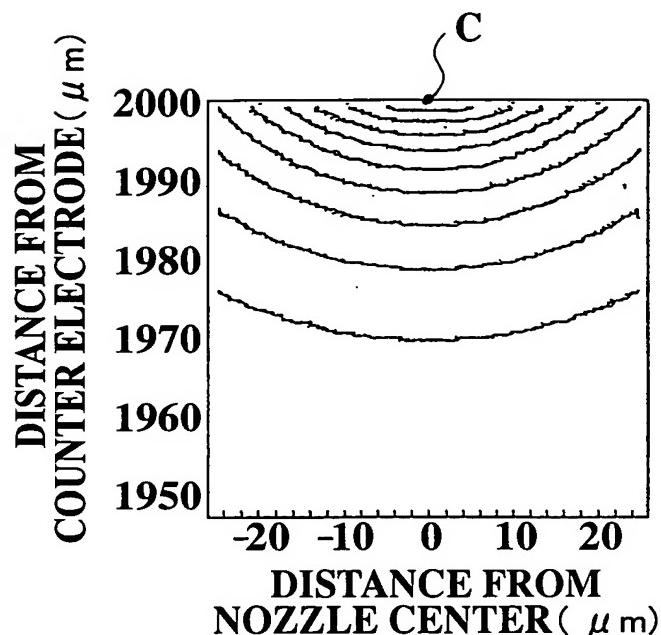
**FIG.5A**



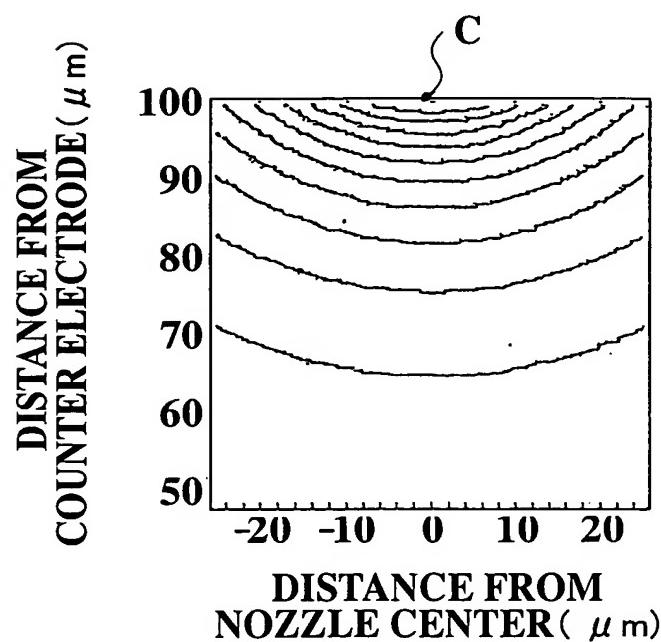
**FIG.5B**



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**FIG.6A**



**FIG.6B**



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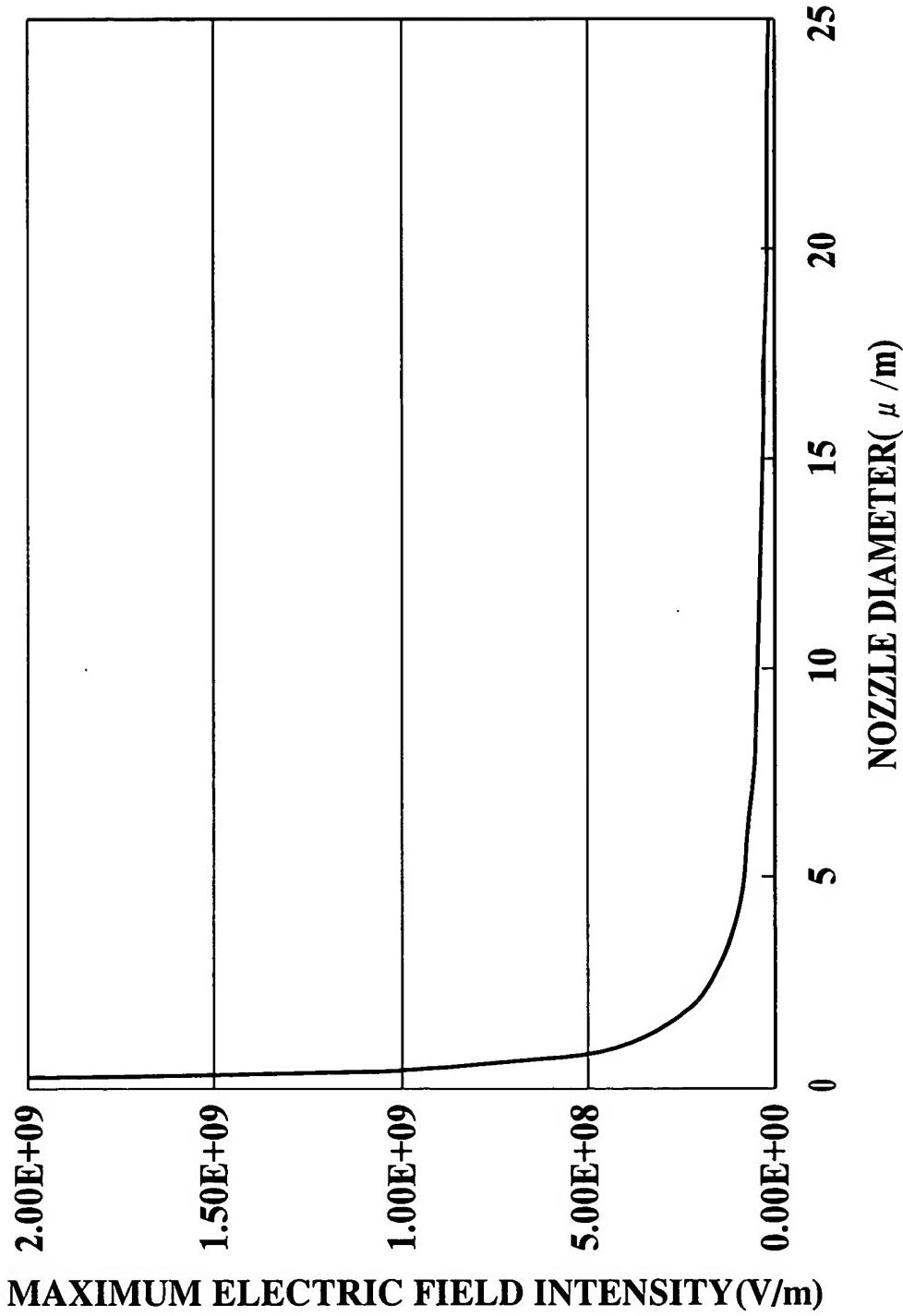
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**FIG.7**

NOZZLE DIAMETER ( $\mu$ m)	MAXIMUM ELECTRIC FIELD INTENSITY(V/m)		COEFFICIENT OF FLUCTUATION (%)
	GAP100 ( $\mu$ m)	GAP2000 ( $\mu$ m)	
0.2	$2.001 \times 10^9$	$2.00005 \times 10^9$	0.05
0.4	$1.001 \times 10^9$	$1.00005 \times 10^9$	0.09
1	$0.401002 \times 10^9$	$0.40005 \times 10^9$	0.24
8	$0.0510196 \times 10^9$	$0.05005 \times 10^9$	1.94
20	$0.0210476 \times 10^9$	$0.0200501 \times 10^9$	4.98
50	$0.00911111 \times 10^9$	$0.00805 \times 10^9$	13.18

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*FIG. 8*



## JETTING START VOLTAGE / RAYLEIGH LIMIT VOLTAGE

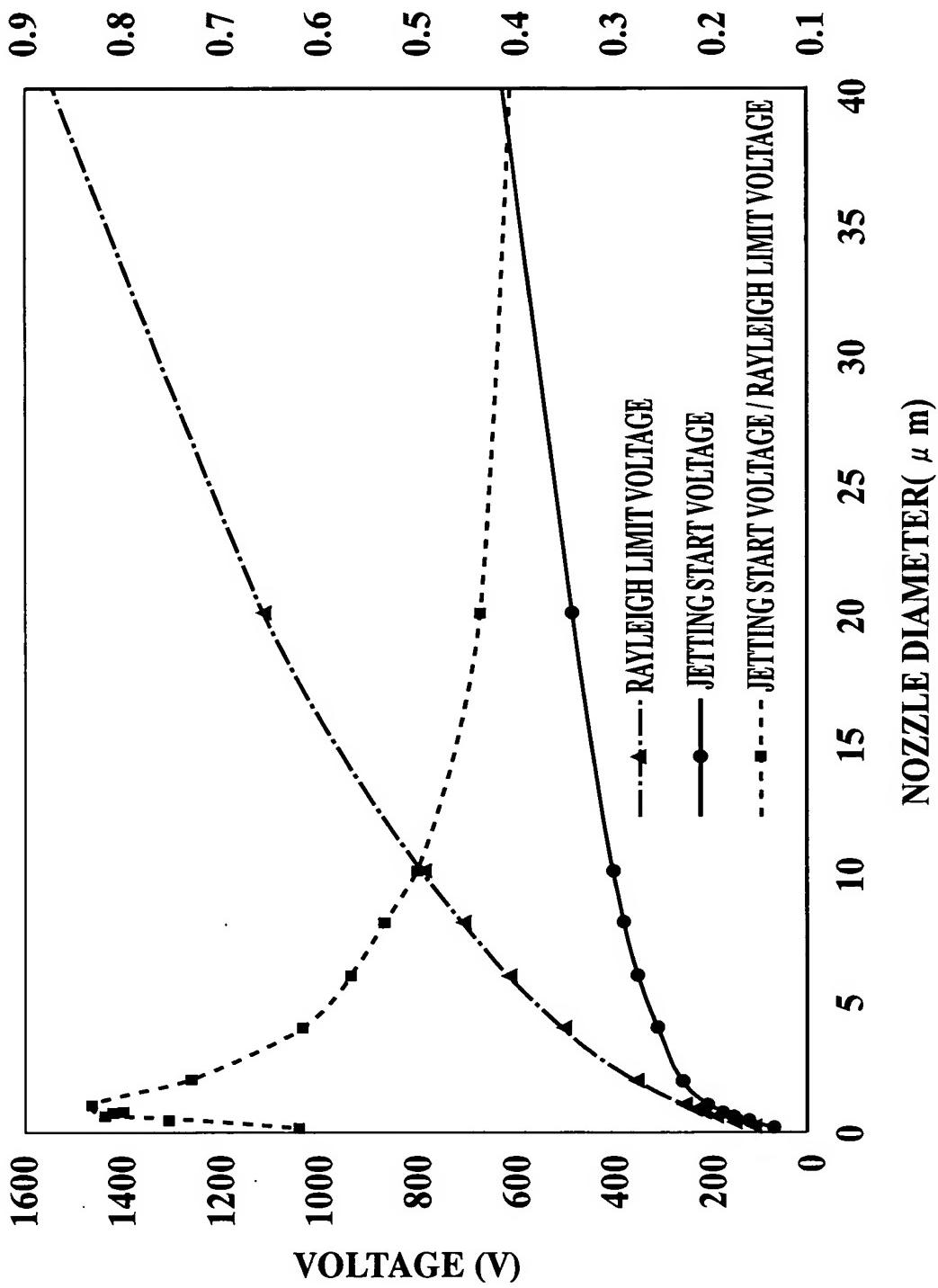
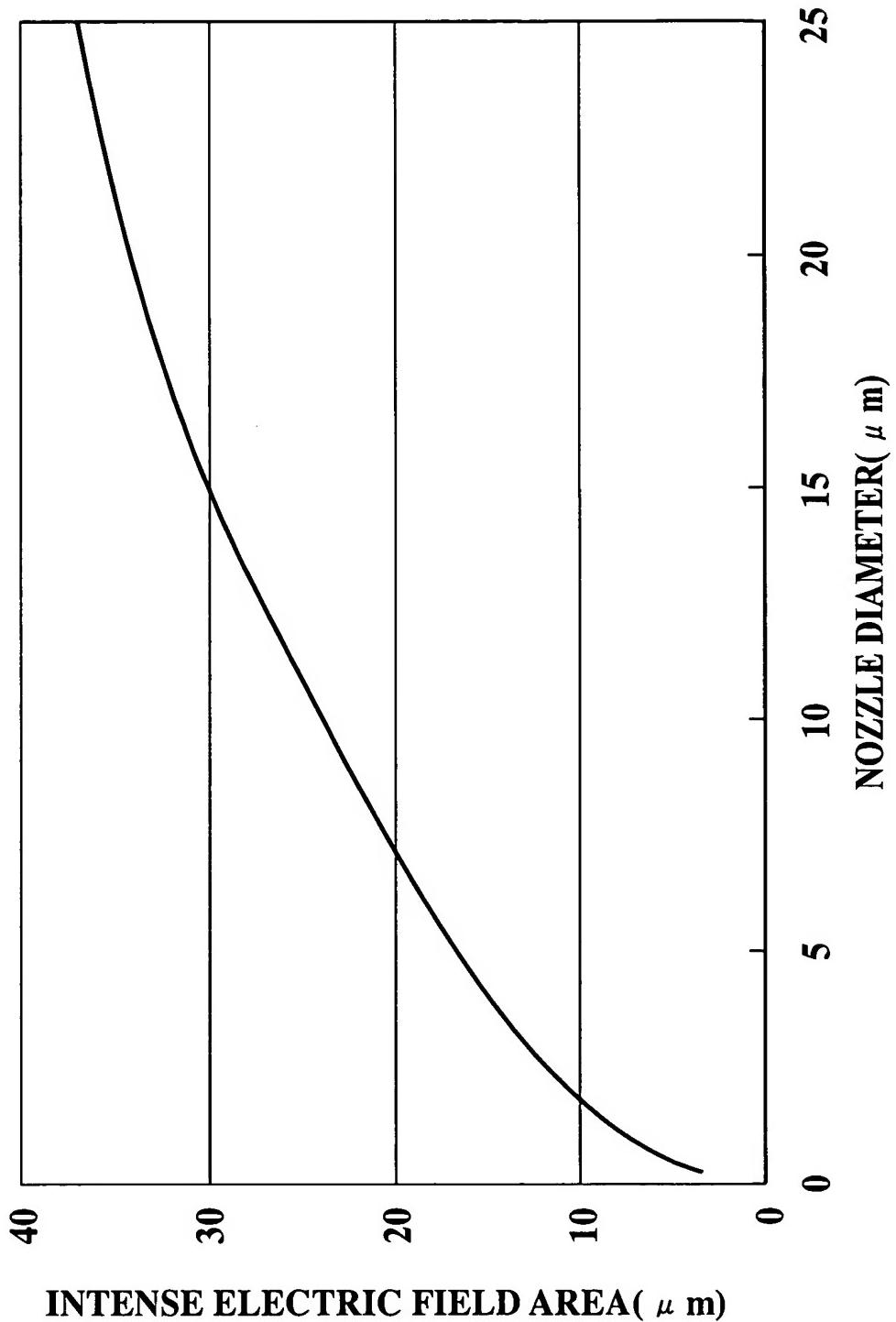


FIG. 9

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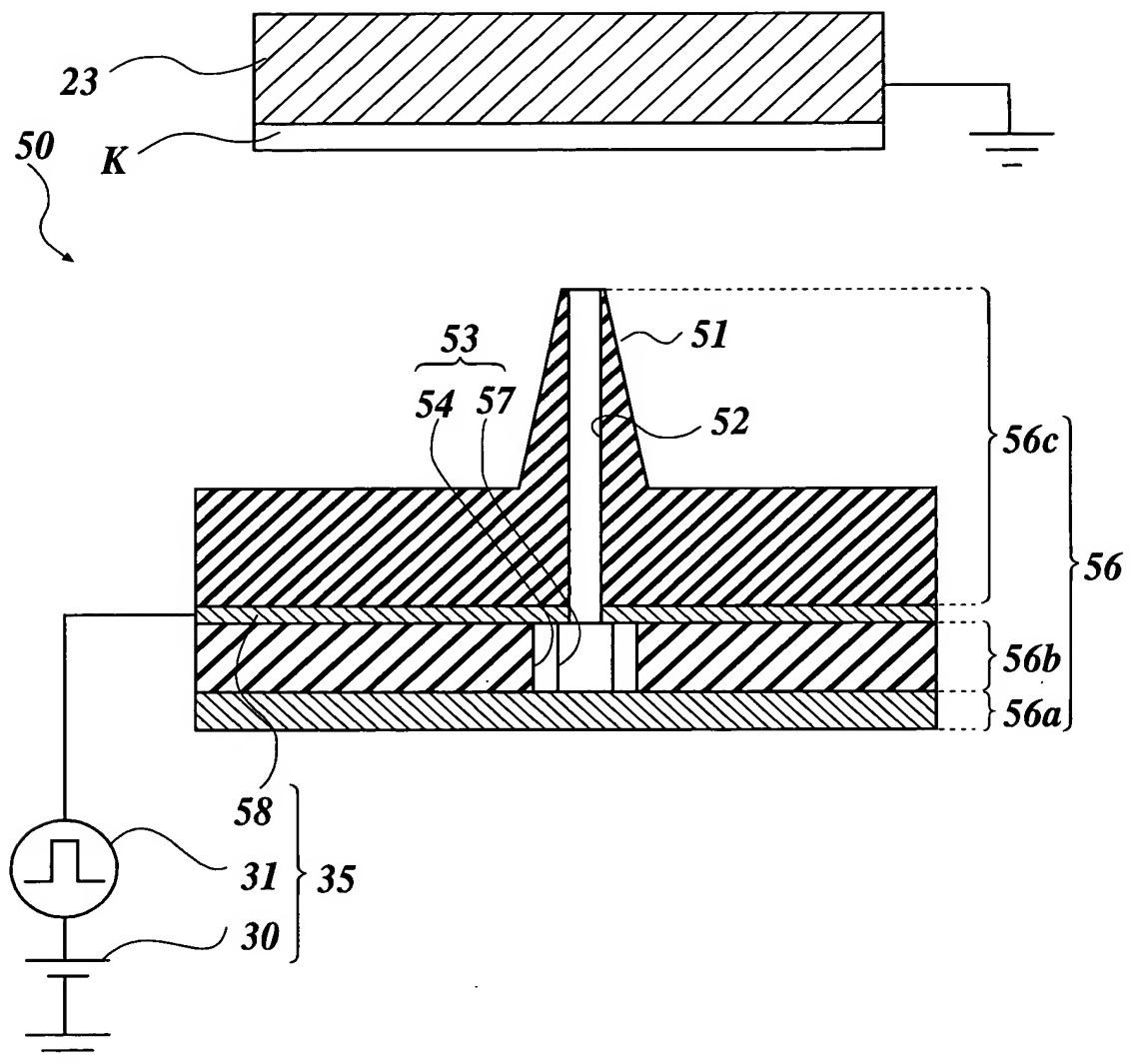
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**FIG. 10**



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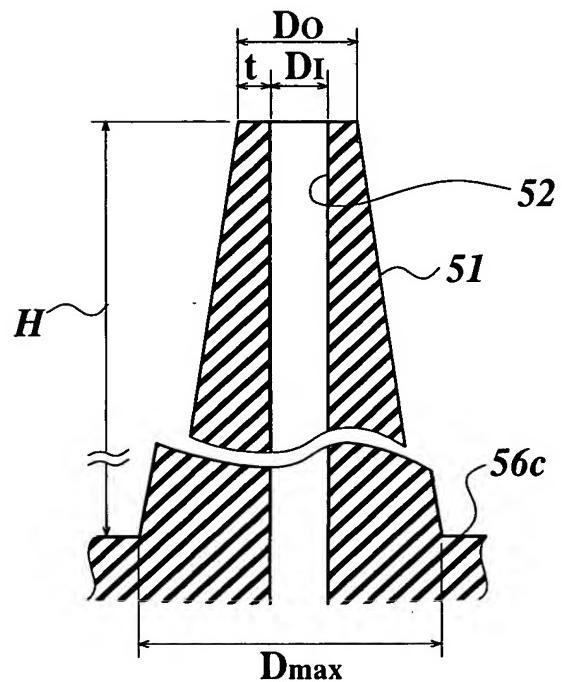
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**FIG.11**



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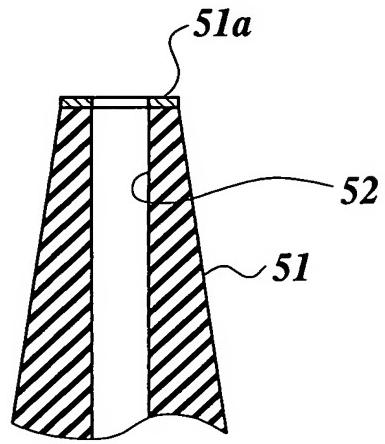
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**FIG.12A**

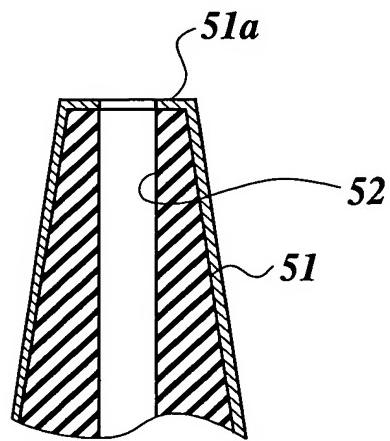


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**FIG.13A**

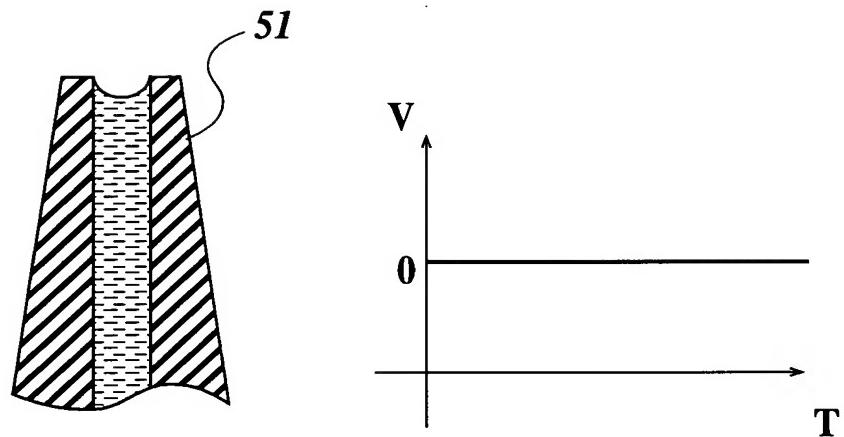


**FIG.13B**

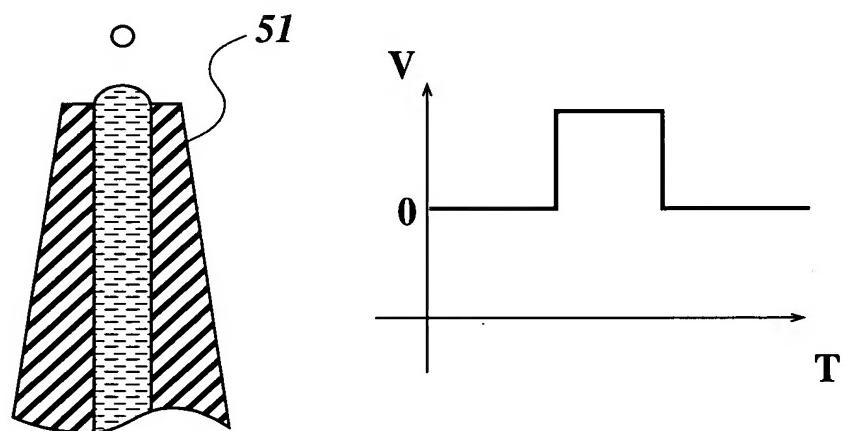


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**FIG.14A**



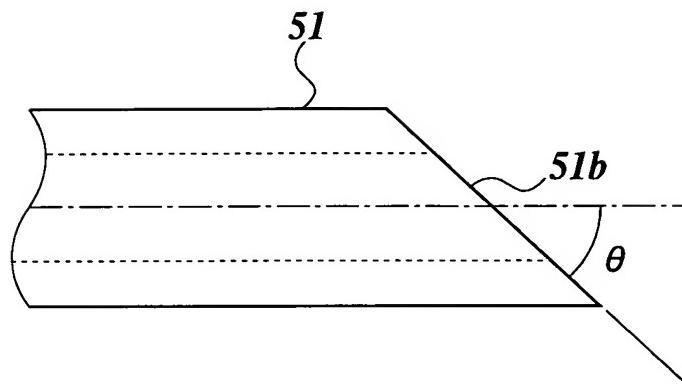
**FIG.14B**



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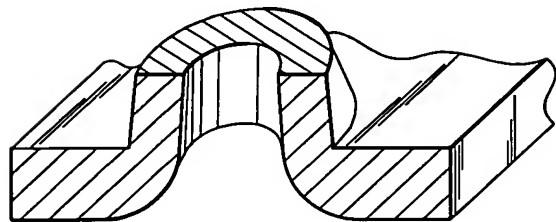
***FIG.15***



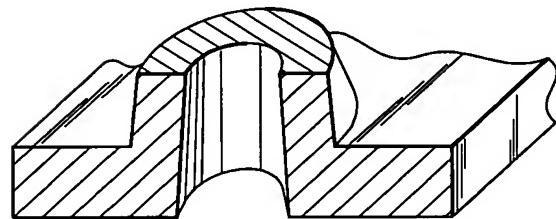
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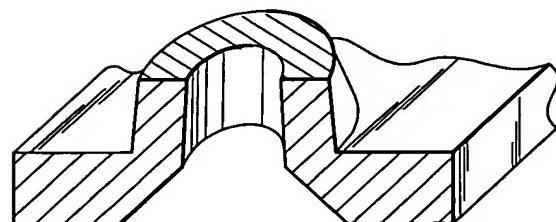
***FIG.16A***



***FIG.16B***



***FIG.16C***



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**FIG 17**

No.	DI( $\mu\text{m}$ )	DO( $\mu\text{m}$ )	D <sub>max</sub> ( $\mu\text{m}$ )	H( $\mu\text{m}$ )	EVENNESS
1	1	2	5	1	1
2	1	2	5	9	2
3	1	2	5	10	3
4	1	2	5	49	3
5	1	2	5	50	4
6	1	2	5	51	4
7	1	2	5	99	4
8	1	2	5	100	5

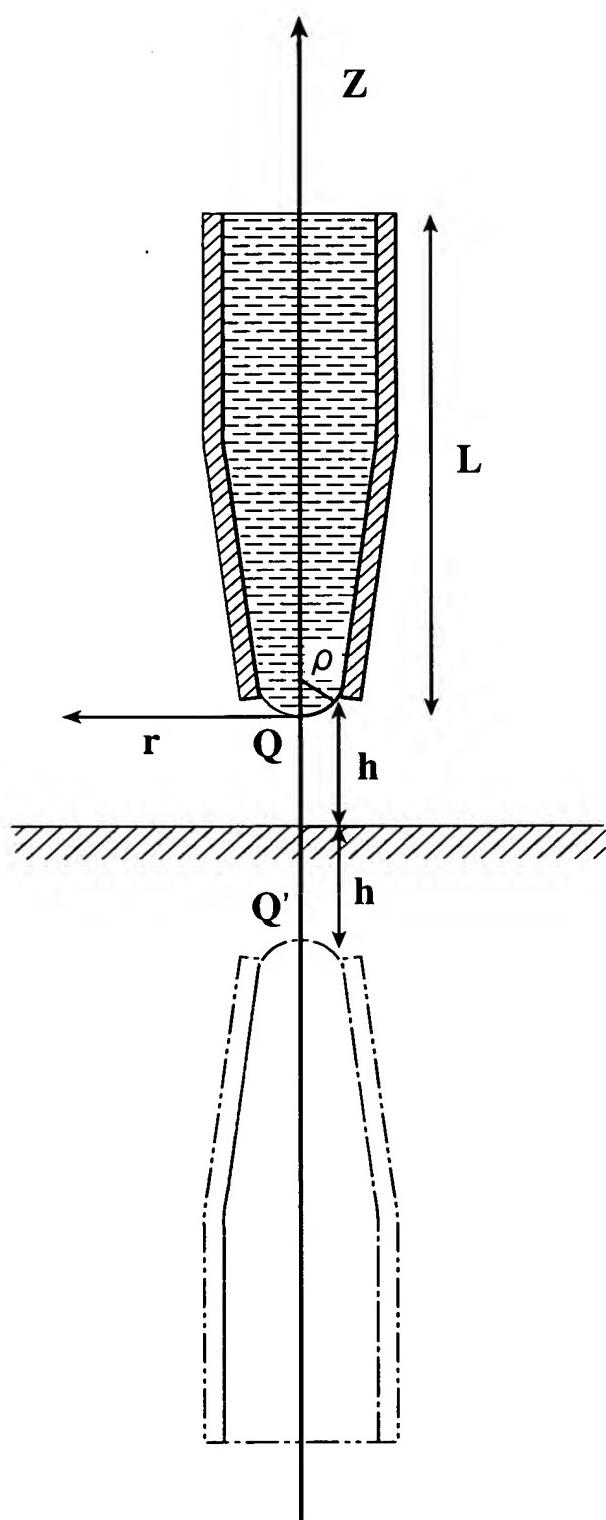
**FIG 18**

No.	DI( $\mu\text{m}$ )	t( $\mu\text{m}$ )	WATER REPELLENT PROCESSING	ANGLE OF NOZZLE EDGE SHAPE	RESPONSIVENESS
1	1	2	UNAVAILABLE	90	1
2	1	1	UNAVAILABLE	90	3
3	1	0.2	UNAVAILABLE	90	3.5
4	1	1	①	90	3.5
5	1	0.2	②	90	4.0
6	1	2	②	90	2
7	1	1	②	40	4.0
8	1	0.2	②	40	5.0
9	1	0.2	②	20	3.0

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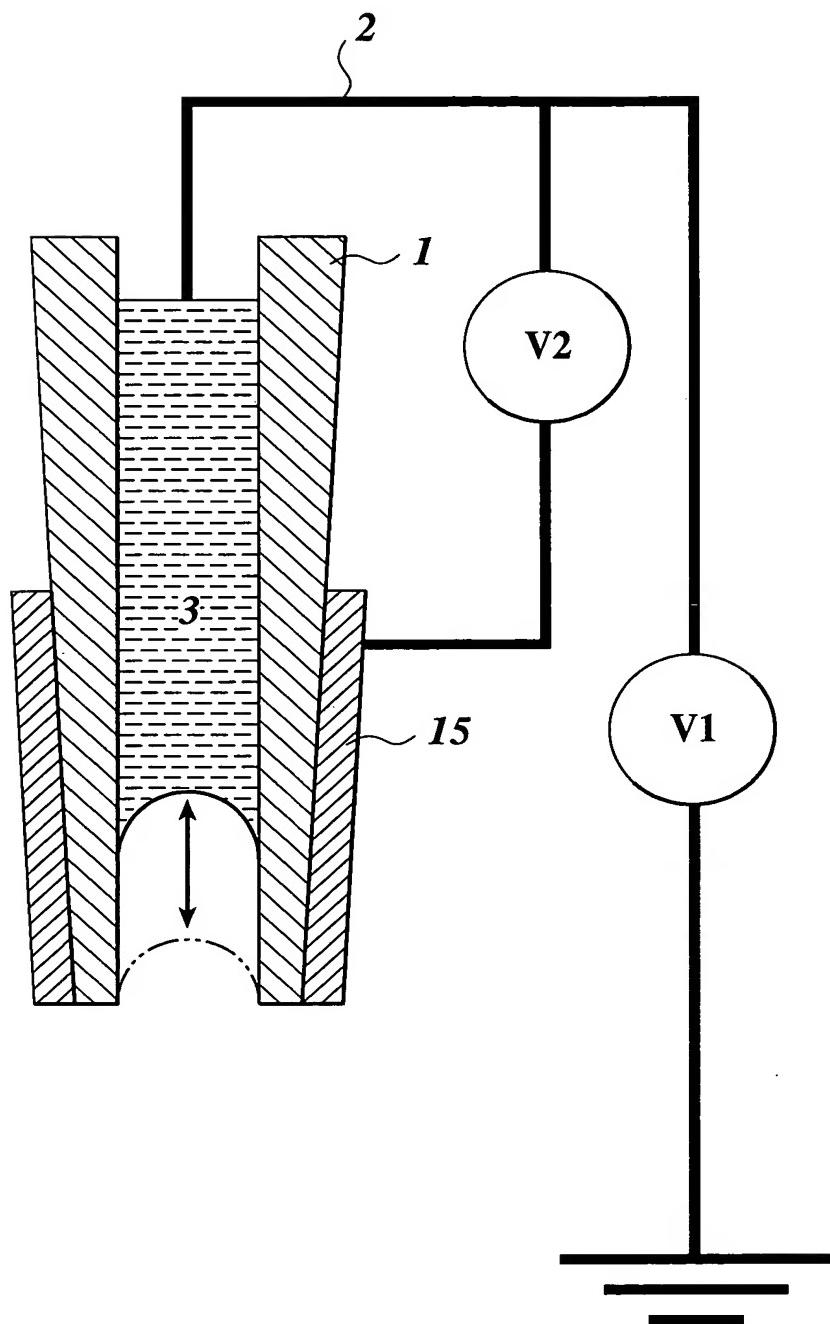
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**FIG 19**



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**FIG.20**



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**FIG.21**

